



Made In USA

# Professional Plasteline™

## Soft • Sulfur-Based • Non-Drying Modeling Clay

**Professional Plasteline™** is the original sulfur-based sculpting clay formula developed by Claude Chavant in 1892. It is a pliable clay at room temperature that does not require heat tools to use, clay has a silky, smooth surface texture. Professional Plasteline™ is most frequently used for the creation of sculpture.

Malleable at room temperature (72F/23C) **Professional Plasteline™** is an outstanding clay option for applying to armatures that are sensitive to heat, such as FDM 3D prints that could deform against hot clay. **Professional Plasteline™** is also easy to use when embedding support materials to establish depth/clay thickness such as for Forensic Facial Reconstruction.

### GENERAL PROCESSING RECOMMENDATIONS

#### WORKING WITH THE CLAY

Very soft clays tend to slump under their own weight. **Professional Plasteline™** clay is not self-supporting and an armature or support structure will be needed for most sculptures. Securing an armature to an appropriate (wood/melamine) base before clay is applied can help reduce the potential for clay cracking when the sculpture is moved. Traditional wood, metal, plastic, and silicone clay tools are recommended for working with the clay.

#### SMOOTHING THE CLAY

Due to the soft nature of the clay, smoothing can be achieved with hand pressure or scraping tools. Clay is very responsive to any type of solvents. A milder solvent such as 99% isopropyl alcohol on the surface of the clay will help to attain a smooth surface. Clay smooths easily with water as a lubricant to attain a smooth surface.

### SOFTENING THE CLAY

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**Professional Plasteline™** is generally is used at room temperature, 73°F/23°C. Cool clay will respond in much the same way as warm clay. If a slightly softer clay is desired, **Professional Plasteline™** can be warmed to 115°F / 46°C if desired. It is important to never overheat a sulfur-bearing clay as it can potentially burn the clay.

#### Heating Equipment Options

- Temperature Controlled Crock Pot®
- Scientific/Laboratory Oven
- Hot Box With Conventional Temperature Monitor
- Warming Oven Dedicated For Clay Only (*Do Not Use Home Oven*)
- Microwaves Are **NOT** Recommended Due To Uneven Heating And Potential Burning.

*Sulfur-Based clay will discolor warming equipment & can build (crystalize) on the interior of clay warmers & industrial ovens over time.*

### SHELF LIFE

**Unopened:** stored at room temperature away from sunlight or sources of UV, it will have a shelf life of 2 years. See [chavant.com](http://chavant.com) for details.

**Opened:** over time, clay exposed to air will oxidize and the surface may eventually dry out. Once opened, place clay in airtight container or wrap completely in plastic wrap and store away from sunlight or sources of UV.

### TECHNICAL OVERVIEW

#### Color:



Gray-Green



Brown

**Durometer / Hardness** 8A

**Tack Level:** Low Tack

**Wax Content:** Low Wax Content

**Density:** 87 lbs./cu. ft.

**Specific Gravity:** 1.4 g/cc

**Softening Temp:** 115°F / 46°C

**Packaging:** 2lb. block (.907 kg.)

*Clay Can Bond To Fabrics And Stain Clothing.*

### SAFETY FIRST

#### Keep Out Of Reach Of Children

Avoid overheating the clay, results in serious burns to the skin. **Professional Plasteline™** contains sulfur, which may cause a stinging sensation in the eyes if brought into direct contact with the eyes. Wash hands after use. The Safety Data Sheet (SDS) for this or any Chavant product should be read prior to use and is available upon request from Smooth-On. All Smooth-On products are safe to use if directions are read and followed carefully.

**Important:** The information contained in this bulletin is considered accurate. However, no warranty is expressed or implied regarding the accuracy of the data, the results to be obtained from the use thereof, or that any such use will not infringe upon a patent. User shall determine the suitability of the product for the intended application and assume all risk and liability whatsoever in connection therewith.



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